

**AMENDMENTS TO THE CLAIMS**

The listing of claims below replaces all prior versions of claims in the application.

1. (Currently Amended) An image scanner comprising:
  - an elongate body having an image reading surface for facing an original document;
  - a substrate provided in the body in parallel to the image reading surface;
  - a line sensor extending in the body longitudinally thereof and mounted on the substrate in facing the relationship to the image reading surface for reading the document as the body moves along the document;
  - a roller shaft rotatably supported in the body to extend longitudinally of the body;
  - at least one roller supported on the roller shaft for rotating therewith while rolling on the document;
  - a rotary encoder for detecting the rotation of said at least one roller for determining a scanning distance of the body, the rotary encoder including a rotary disk supported 15 on a disc shaft; and
  - a drive transmission for connecting said at least one roller to the rotary encoder;
  - wherein the rotary disc is oriented parallel to the substrate and the image reading surface[.]; and

Response  
Application No. 09/939,736  
Attorney Docket No. 011036

wherein the drive transmission comprises a first pulley mounted on the roller shaft, a second pulley mounted on the disc shaft, a belt wound around the first pulley and the second pulley, and a pair of intermediate pulleys for bending the belt.

2. (Original) The image scanner according to claim 1, wherein the disc shaft extends perpendicularly to the roller shaft.

3. (Canceled)

4. (Previously Presented) The image scanner according to claim 1, wherein the rotary encoder also including an optical detector mounted directly on the substrate adjacent to the 5 rotary disc.

5. (Canceled)

6. (Currently Amended) The image scanner according to claim [[5]] 1, wherein each of the first pulley and the second pulley has a circumferential engaging surface, the circumferential engaging surface of the first pulley differs diametrically from that of the second pulley.

7. (Currently Amended) The image scanner according to claim [[5]] 1, wherein the drive transmission further comprises at least one additional pair of intermediate pulleys.

Response

Application No. **09/939,736**

Attorney Docket No. **011036**

8. (Original) The image scanner according to claim 7, wherein said at least one additional pair of intermediate pulleys have a respective rotational axis extending parallel to the disc shaft.

9. (Original) The image scanner according to claim 7, wherein the roller shaft, the first pulley and the intermediate pulleys are located offset toward a longitudinal side of the body.